

# Modderfontein Laboratory Services

(Pty) Ltd

reg.No. 1966/001741/07

P.O. Box 27  
Modderfontein  
1645  
Tel: +27(011) 457 1800  
Fax: +27(011) 608 0923  
www.modlab.co.za

**Client:** NJATI HOLDINGS (PTY)LTD  
**Client Address:** PO BOX 1436  
FONTAINBLEAU  
2032  
**Group ID:** 267734  
**LimsID:** 302929  
**P.O. Number:** Chloorkop Gypsum  
26/06/2020  
**Date Received:** 26-Jun-2020  
**Date Reported:** 07-Jul-2020  
**Batch Number:** 25062020  
**Product Name:** Chloorkop Gypsum  
**Specification:** Act 36

## CERTIFICATE OF ANALYSIS

Test	Test Method	Result	UOM	Specification
Total Calcium (as Ca)	MDF 820	18.0	% (m/m)	Greater than 18% m/m
Sulphur (as S)	ALFA 10/1	14.1	% (m/m)	Greater than 12% m/m
Total Magnesium (as Mg)	MDF820	0.01	% (m/m)	
Water Soluble Magnesium (as Mg)	MDF 820	0.01	% (m/m)	
Calcium sulphate (as CaSO <sub>4</sub> .2H <sub>2</sub> O)	Calculation	75.9	% (m/m)	
CaSO <sub>4</sub> .2H <sub>2</sub> O (Dry basis)	Calculation	93.7	% (m/m)	
pH (10% slurry)	ALFA 19/1	4.1		
Loss on drying @ 220°C	Gravimetric	34.9	% (m/m)	
Free Moisture	Gravimetric	19.0	% (m/m)	
Sieve analysis: <2000µm	Wet Screening	99.3	% (m/m)	
Sieve Analysis: <250µm	Wet Screening	98.1	% (m/m)	
Arsenic (as As)	MDF 821	<1	mg/kg	Not more than 50
Cadmium (as Cd)	MDF 821	<0.1	mg/kg	Not more than 20
Chromium (as Cr)	MDF 821	7.7	mg/kg	Not more than 1750
Copper (as Cu)	MDF 821	2.0	mg/kg	Not more than 750
Lead (as Pb)	MDF 821	7.9	mg/kg	Not more than 400
Mercury (as Hg)	MDF 821	<0.5	mg/kg	Not more than 10
Nickel (as Ni)	MDF 821	0.9	mg/kg	Not more than 200


Note: MLS is an Agrilasa certified laboratory for fertiliser analysis. MLS is certified under ISO 9001 certificate #L1804. MLS is responsible for management of all information obtained and/or created during performance of service and shall treat it as confidential. MLS strives to undertake all activities or services impartially.

Supervisor: \_\_\_\_\_ 



Directors: D. Gregory (Managing)

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10/07/20.

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<b>Client:</b>	NJATI HOLDINGS (PTY)LTD	<b>Group ID:</b>	267734
<b>Client Address:</b>	PO BOX 1436 FONTAINBLEAU 2032	<b>LimsID:</b>	302929
<b>Date Received:</b>	26-Jun-2020	<b>P.O. Number:</b>	Chloorkop Gypsum 26/06/2020
<b>Date Reported:</b>	07-Jul-2020	<b>Batch Number:</b>	25062020
<b>Product Name:</b>	Chloorkop Gypsum	<b>Specification:</b>	Act 36

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## CERTIFICATE OF ANALYSIS

<u>Test</u>	<u>Test Method</u>	<u>Result</u>	<u>UOM</u>	<u>Specification</u>
Selenium (as Se)	MDF 821	<2	mg/kg	Not more than 15
Zinc (as Zn)	MDF 821	4.7	mg/kg	Not more than 2750

**Results reported are on sample as received.**

**CaSO<sub>4</sub>.2H<sub>2</sub>O reported on dry basis by removing the free moisture content.**

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Supervisor: \_\_\_\_\_ 



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Registration Number : 1966/001741/07

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Tel: +27 011 457 1800

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Client Name: NJATI HOLDINGS

Client Address: P.O.Box 1436

Fontainbleau

2032

Date Received: 26/06/2020

Date Reported: 07/07/2020

Product Name: Chloorkop Gypsum

Gr. No.: 267734

Lims ID: 302929

P.O. No.:

Batch No.: 25062020

## CERTIFICATE OF ANALYSIS

Test	Test Method	Result	Specification	Unit
Calcium as Ca	MDF 820	18.0	>18	% m/m
Sulphur as S	ALFA 10/1	14.1	>12	% m/m
Total Magnesium as Mg	MDF 820	0.01		% m/m
Water Soluble Magnesium as Mg	MDF 820	0.01		% m/m
CaSO <sub>4</sub> .2H <sub>2</sub> O	Calculation	75.9		% m/m
CaSO <sub>4</sub> .2H <sub>2</sub> O (Dry Basis)	Calculation	93.7		% m/m
pH (10% slurry)	ALFA 19/1	4.1		units
Loss on drying @ 220°C	Gravimetric	34.9		% m/m
Free Moisture	Gravimetric	19.0		% m/m
Sieve Analysis:<2.0mm	Wet Screening	99.3		% m/m
Sieve Analysis:<0.25mm	Wet Screening	98.1		% m/m
Arsenic as As	MDF 821	<1	50	mg/kg
Cadmium as Cd	MDF 821	<0.1	20	mg/kg
Chromium as Cr	MDF 821	7.7	1750	mg/kg
Copper as Cu	MDF 821	2.0	750	mg/kg
Lead as Pb	MDF 821	7.9	400	mg/kg
Mercury as Hg	MDF 821	<0.5	10	mg/kg
Nickel as Ni	MDF 821	0.9	200	mg/kg
Selenium as Se	MDF 821	<2	15	mg/kg
Zinc as Zn	MDF 821	4.7	2750	mg/kg

Analysis was done on sample as received.

NOTE: 1) CaSO<sub>4</sub>.2H<sub>2</sub>O calculated on dry basis by removing the free moisture content.



D. Reddy

Fertilizer Manager

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